| In | idex | of C | laims | : |
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|    |      |      |       |   |

| Application/Control No |
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09/680,963

Applicant(s)/Patent under Reexamination YAMADA, TETSUO

Art Unit

Examiner

Heather R. Jones

2616

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| CI       | aim         | Γ               |          |          |          | Date         |  |  |  |  | l | Cla      | aim      |   |   |          |              | Date         | е  |          |
|----------|-------------|-----------------|----------|----------|----------|--------------|--|--|--|--|---|----------|----------|---|---|----------|--------------|--------------|--|----------|
| Final    | Original    |                 |          | 12/10/05 |          | ·            |  |  |  |  |   | Final    | Original |   |   |          |              |              |  |          |
| -        | (1)         |                 | $\dashv$ | 7        |          |              |  |  |  | -  |   |          | 51       |   | - |          | -            |              |  | ┝        |
|          | (2)         | H               | T        | 1        | $\vdash$ |              | T  | _  |  |  |   |          | 52       |   |   |          | $\vdash$     | ┢            | $\vdash$   | T        |
|          | 3           |                 | _        | 1        |          |              |  |  |  | <u> </u>   |   |          | 53       |   |   |          |              |              |  | T        |
|          | (4)         |                 | $\dashv$ | =        | _        | <u> </u>     | <u> </u>   |  | 1  | _  |   |          | 54       | _ |   |          |              |              |  | Т        |
|          | 5           |                 | $\dashv$ | = .      |          |              |  |  |  |  |   |          | 55       |   | П |          |              |              | Т  | T        |
|          | -6          |                 | $\neg$   | =        |          |              |  |  | <u> </u>   | <del>                                     </del> |   |          | 56       |   |   |          |              |              |  | Γ        |
|          | (7)         |                 | T        | =        |          |              |  |  |  |  |   |          | 57       |   |   |          |              |              |  | Г        |
|          | (8)         |                 |          | =        |          |              |  |  |  |  |   |          | 58       |   |   |          |              |              |  |          |
|          | (9)         |                 |          | =        |          |              |  |  |  |  |   |          | 59       |   |   |          |              |              |  |          |
|          | <b>(10)</b> |                 |          | Ν        |          |              |  |  |  |  |   |          | 60       |   |   |          |              |              |  |          |
|          | 1           |                 |          | Ν        |          |              |  |  |  |  |   |          | 61       |   |   |          |              |              |  | <u>L</u> |
|          | (12)        |                 |          | N        |          |              |  | <u></u>  |  |  |   |          | 62       |   |   |          |              | <u> </u>     |  | L        |
|          | <b>(13)</b> |                 |          | Ν        |          | <u> </u>     |  |  |  |  |   |          | 63       |   | _ | _        | _            |              |  |          |
| L        | (14)        |                 |          | N        |          |              | $ldsymbol{ld}}}}}}$ |  |  |  |   |          | 64       |   |   |          | ļ            | <u> </u>     |  | L        |
|          | 15          | Щ               |          | 1        |          |              |  |  |  |  |   |          | 65       |   |   |          |              | _            |  | L        |
| <u> </u> | 16          |                 |          | 1        |          | <u> </u>     | _  |  |  |  | Į |          | 66       |   |   |          |              | <u></u>      |  |          |
|          | 17          |                 |          | 1        |          |              | <u> </u>   |  | ļ  |  | Į |          | 67       |   |   |          |              |              | <u> </u>   | Ļ        |
|          | 18          |                 | _        |          |          |              |  | L  | ļ.,  |  |   | <u>.</u> | 68       |   |   |          | _            | <u> </u>     | _  | L        |
|          | 19          | Ш               | _        |          |          | L            |  |  |  |  |   | <u> </u> | 69       |   | L | <u> </u> |              | <u> </u>     | _  | L        |
| <u> </u> | 20          |                 |          |          |          |              |  |  | 1_   |  |   |          | 70       |   |   |          | ļ            | L_           | <u>L</u>   | L        |
| <u> </u> | 21          | $\sqcup$        | _        |          |          | _            |  |  |  | ļ  |   | ļ        | 71       |   |   | <u> </u> | ļ            | _            | _  | <u> </u> |
|          | 22          |                 | _        |          |          |              |  |  | <u> </u>   |  |   |          | 72       |   |   | <u> </u> | _            |              | <u> </u>   | _        |
|          | 23          |                 | $\dashv$ |          |          |              |  |  | L  | <u> </u>   |   |          | 73       |   |   | <u> </u> | <u> </u>     | <u> </u>     | _  | _        |
|          | 24          |                 |          |          | _        |              |  | ļ  | <u> </u>   | _  | ļ | <u> </u> | 74       |   |   | <u> </u> | <u> </u>     | <u> </u>     | <u> </u>   | _        |
| ļ        | 25          |                 |          |          |          |              | -  | -  |  |  | l |          | 75       |   | _ |          | _            | _            | -  | -        |
| ļ        | 26          |                 |          |          |          | -            | -  | -  | ļ  |  | l |          | 76       | _ |   | _        | -            | _            | <u> </u>   | ┡        |
|          | 27          |                 |          |          |          | <u> </u>     | -  | <b>-</b>   | <del> </del>                                     |  | ł | ļ        | 77       | _ | _ | _        | -            | ┝            |  | ⊢        |
| -        | 28<br>29    | $\vdash$        | $\dashv$ |          | _        | <u> </u>     | <del> </del>   |  | <u> </u>   |  | { |          | 78       | H | - | -        | -            | -            |  | ├        |
| <u> </u> | 30          | $\vdash$        | -+       |          |          |              |  |  | <del> </del>                                     |  |   |          | 79<br>80 |   |   | -        | -            |              | -  | ┝        |
| <u> </u> | 31          | $\vdash$        |          |          |          |              |  |  |  |  |   |          | 81       |   |   |          |              | H            |  | ⊢        |
| <b> </b> | 32          | $\vdash$        | $\dashv$ |          |          | $\vdash$     | $\vdash$   |  |  | -  |   |          | 82       |   |   |          | ├            | -            | -  | ┝        |
|          | 33          |                 |          |          | -        | <del> </del> |  | $\vdash$   | <del> </del>                                     |  | l |          | 83       |   |   |          |              | -            | ├  | ╁        |
| <u> </u> | 34          |                 | -        |          |          |              | -  | <del> </del>                                     |  |  |   |          | 84       |   | - |          | $\vdash$     | -            |  | ╁        |
| -        | 35          | $\vdash \vdash$ | -        |          |          |              | <del> </del>   | -  | <del>                                     </del> |  | 1 |          | 85       |   | - |          | <del> </del> | <del> </del> |  | $\vdash$ |
| <b> </b> | 36          |                 |          |          |          | <del> </del> |  | <del> </del>                                     | <del> </del>                                     |  | 1 |          | 86       |   | - | -        | $\vdash$     | $\vdash$     |  | H        |
|          | 37          | $\vdash$        | $\dashv$ | -        | _        | $\vdash$     | $\vdash$   | <del>                                     </del> | <del>                                     </del> | _  |   |          | 87       |   |   |          |              |              |  | $\vdash$ |
|          | 38          |                 |          |          |          | ١            | <del> </del>   | <u> </u>   | $t^-$  | <del> </del>                                     | 1 |          | 88       | - |   | -        | $\vdash$     | T-           | <del>                                     </del> | $\vdash$ |
|          | 39          |                 | 1        |          |          | <u> </u>     | <del>                                     </del>   |  | <del>                                     </del> | <b> </b>   | 1 |          | 89       |   |   |          | T            |              |  | $\vdash$ |
|          | 40          | -               | $\neg$   |          |          |              | T  | $\Box$   | <del>                                     </del> |  |   | -        | 90       |   |   |          |              |              | 1  | Γ        |
|          | 41          | $\sqcap$        | $\neg$   |          |          | Г            |  |  |  |  |   |          | 91       |   |   |          | 1            | Г            |  | T        |
|          | 42          | $\Box$          | $\neg$   |          |          | Г            | Π  |  |  |  | 1 |          | 92       |   |   |          | T            |              | Г  | Π        |
|          | 43          | $\Box$          |          |          |          | Г            |  |  | <u> </u>   |  | 1 |          | 93       |   |   |          |              |              | T  | Γ        |
|          | 44          |                 |          |          |          | <u> </u>     |  | T  | <u> </u>   | Γ  | ] |          | 94       |   |   |          |              |              |  | Γ        |
|          | 45          |                 |          |          |          |              |  |  |  |  | ] |          | 95       |   |   |          |              |              |  | Γ        |
|          | 46          |                 |          |          |          |              |  |  |  |  | ] |          | 96       |   |   |          |              |              |  | Γ        |
|          | 47          |                 |          |          |          |              |  |  |  |  | ] |          | 97       |   |   |          |              |              |  | Γ        |
|          | 48          |                 |          | _        |          |              |  |  |  |  | ] |          | 98       |   |   |          |              |              |  | Γ        |
|          | 49          |                 |          |          |          |              |  |  |  |  | ] |          | 99       |   |   |          |              |              |  | Γ        |
|          | 50          |                 |          |          |          |              |  |  |  |  | ] |          | 100      |   |   |          |              |              |  | Γ        |
|          |             |                 |          |          | _        |              |  | •  | •  |  | • |          | •        |   |   | _        |              |              | •  |          |

| Cla      | im   | Date     |              |          |          |  |  |          |          |            |  |  |  |
|----------|--|----------|--------------|----------|----------|--|--|----------|----------|------------|--|--|--|
|          |  |          |              |          |          |  |  |          |          |            |  |  |  |
| <u>5</u> | Original                                     |          |              |          |          |  |  |          |          |            |  |  |  |
| Final    | įĝ   |          |              |          |          |  | į  |          |          |            |  |  |  |
| "        | ō  |          |              |          |          |  | 1  |          |          |            |  |  |  |
|          |  |          | -            | _        | _        | ⊢  | _  | _        |          |            |  |  |  |
|          | 51   |          |              |          | L        | <u> </u>   | _  |          |          |            |  |  |  |
|          | 52   |          | <u> </u>     | <u> </u> |          |  |  |          |          |            |  |  |  |
|          | 53   |          |              | <u> </u> |          |  |  |          |          |            |  |  |  |
|          | 54   |          |              |          |          | <u> </u>   |  |          |          | L_         |  |  |  |
|          | 53<br>54<br>55                               |          |              |          |          |  |  |          |          |            |  |  |  |
| l        | 56   |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 56<br>57                                     |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 58<br>59                                     |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 59   |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 60   |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 61   |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 62   |          |              |          |          |  |  |          |          |            |  |  |  |
|          | 61<br>62<br>63                               |          | Г            |          |          |  |  |          |          |            |  |  |  |
|          | 64   |          | _            | _        |          |  | $\Box$   |          | $\Box$   |            |  |  |  |
|          | 64<br>65                                     | _        |              |          |          |  | Г  |          | Г        |            |  |  |  |
|          | 66   |          | _            | _        |          |  | <del>                                     </del> | _        | <b></b>  | $\vdash$   |  |  |  |
| -        | 67   |          |              |          |          | _  | $\vdash$   |          | $\vdash$ |            |  |  |  |
| $\vdash$ | 67<br>68                                     |          | -            | -        |          |  |  |          |          |            |  |  |  |
| <u> </u> | 69   | $\vdash$ | H            | $\vdash$ | H        | <u> </u>   | <del> </del>                                     | -        |          | -          |  |  |  |
|          | 70   |          | -            | -        |          | <del>                                     </del> | $\vdash$   |          | _        |            |  |  |  |
| $\vdash$ | 71   |          | -            |          |          | <del> </del>                                     | <u> </u>   | -        |          |            |  |  |  |
| <u> </u> | 70<br>71<br>72<br>73<br>74<br>75<br>76<br>77 |          |              | -        |          |  | <del>                                     </del> | -        | _        |            |  |  |  |
| $\vdash$ | 73   |          |              | $\vdash$ |          | -  | -  | -        |          |            |  |  |  |
| <u> </u> | 74   |          | $\vdash$     |          | -        |  | -  | -        |          |            |  |  |  |
| <u> </u> | 75   |          | ┝            | $\vdash$ | <b>-</b> |  | ┝  | -        |          |            |  |  |  |
|          | 76   | -        | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$   | _  | _        |          | -          |  |  |  |
|          | 77   | -        | $\vdash$     | $\vdash$ |          | -  |  |          |          | -          |  |  |  |
|          | 70   | _        | -            | $\vdash$ | H        |  | _  |          |          |            |  |  |  |
| <u> </u> | 78<br>79                                     |          | <del> </del> | -        |          | -  |  | -        |          |            |  |  |  |
|          | 79   | _        | <u> </u>     |          |          |  | <u> </u>   |          | _        |            |  |  |  |
|          | 80   |          | _            | _        |          |  | <u> </u>   | _        | _        | <u> </u>   |  |  |  |
|          | 81<br>82                                     |          |              |          | <u> </u> |  |  |          |          | _          |  |  |  |
|          | 82   |          |              |          | <u> </u> | ļ  | ļ  |          | <u> </u> | <u> </u>   |  |  |  |
|          | 83<br>84<br>85                               |          | _            |          | <u> </u> |  | <u> </u>   |          | <u> </u> | $\vdash$   |  |  |  |
| -        | 84   |          | -            |          | <b> </b> | <b> </b> -                                       |  |          |          | ļ          |  |  |  |
|          | 85   | _        | _            | _        | <u> </u> | <u> </u>   | <u> </u>   |          | <u> </u> | $\vdash$   |  |  |  |
| <u> </u> | 86<br>87                                     | _        | <u> </u>     | _        |          | _  | <u> </u>   |          |          | _          |  |  |  |
|          | 87   | ļ        |              |          | _        |  | ļ  |          |          | <u> </u>   |  |  |  |
|          | 88   | _        | $\vdash$     | _        |          |  | <u> </u>   |          | <u> </u> |            |  |  |  |
|          | 89   | _        |              | _        |          |  | _  |          | _        |            |  |  |  |
|          | 90   |          | _            | _        |          | <u> </u>   |  |          | L.       |            |  |  |  |
| <u> </u> | 91   |          | _            |          |          |  | <u> </u>   | _        | L        |            |  |  |  |
|          | 92   | _        | _            | <u> </u> | H        | <u> </u>   | ļ  | ļ        | L_       | <u> </u>   |  |  |  |
| <b> </b> | 93   | _        | _            | <u> </u> | $\vdash$ | <u> </u>   | <u> </u>   |          | <u> </u> | _          |  |  |  |
| <u></u>  | 94   |          |              |          | <u> </u> | <u> </u>   | _  | <u> </u> |          | L          |  |  |  |
|          | 95   | _        | <u> </u>     | <u> </u> | <u> </u> | <u> </u>   | <u> </u>   | <u> </u> | L.       | <u> </u>   |  |  |  |
| <u> </u> | 96   |          | ļ            | <u> </u> |          |  | _  | <u> </u> |          | lacksquare |  |  |  |
|          | 97   |          | _            | <u> </u> | <u> </u> | L  | <u> </u>   |          |          | _          |  |  |  |
|          | 98   |          | _            |          |          | <u>L</u>   | <u> </u>   | _        | _        | <u> </u>   |  |  |  |
|          | 99   |          | <u> </u>     | _        | _        | <u> </u>   | <u> </u>   |          | <u> </u> | L          |  |  |  |
| 1        | 100  | l        | l            | l        | ı        |  | 1  | 1        | l        | l          |  |  |  |

| Cla      | Date       |          |   |          |          |          |          |          |          |                 |  |
|----------|------------|----------|---|----------|----------|----------|----------|----------|----------|-----------------|--|
| Final    | Original   |          |   |          |          |          |          |          |          |                 |  |
|          | 101        |          |   |          |          |          |          |          |          |                 |  |
|          | 102        |          |   | _        |          |          |          |          |          | Ш               |  |
|          | 103        |          |   | _        |          |          |          |          | _        | -               |  |
|          | 104        |          |   |          |          |          |          |          |          |                 |  |
|          | 105        |          |   |          |          |          |          |          |          | -               |  |
|          | 106<br>107 |          |   | -        | -        | -        |          |          |          |                 |  |
|          | 108        |          |   |          |          | -        |          |          |          | $\dashv$        |  |
|          | 109        |          |   |          |          |          |          |          |          |                 |  |
|          | 110        |          |   |          |          | _        |          |          |          |                 |  |
|          | 111        |          |   |          |          |          |          |          |          |                 |  |
|          | 112<br>113 |          |   | L.       | _        |          |          |          |          |                 |  |
|          | 113        |          | _ | _        | _        | <u> </u> |          | ļ        |          |                 |  |
|          | 114        |          |   | <u> </u> | <u> </u> | _        |          |          | _        |                 |  |
|          | 115<br>116 | _        |   | _        | _        | _        |          |          | _        |                 |  |
|          | 117        | _        | _ |          |          | ļ        |          |          |          |                 |  |
|          | 118        |          | _ | <u> </u> | <u> </u> | <u> </u> | -        |          |          | H               |  |
|          | 119        |          |   | H        |          |          |          |          |          |                 |  |
|          | 120        |          | _ | -        | -        |          | -        | _        |          | Н               |  |
|          | 121        |          |   | -        |          |          |          |          |          |                 |  |
|          | 122        |          |   |          |          |          |          |          |          |                 |  |
|          | 123<br>124 |          |   |          |          |          |          |          |          |                 |  |
|          | 124        |          |   |          |          |          |          |          |          |                 |  |
|          | 125        |          |   |          |          |          |          |          |          | Ш               |  |
|          | 126<br>127 |          |   |          |          |          | _        |          |          |                 |  |
|          | 127        |          |   |          |          |          |          |          |          | $\vdash$        |  |
|          | 129        |          | _ | -        | <u> </u> |          |          |          |          | H               |  |
|          | 130        |          |   | -        |          | -        | -        | _        |          | $\vdash$        |  |
|          | 131        |          | - | -        |          |          |          |          |          |                 |  |
|          | 132        |          |   |          |          |          |          |          |          |                 |  |
|          | 133        |          |   |          |          |          |          | *        |          |                 |  |
|          | 134        |          |   |          |          |          |          |          |          |                 |  |
|          | 135        |          |   | _        |          |          |          |          |          |                 |  |
|          | 136        |          |   | -        | L        | <u></u>  |          |          |          |                 |  |
|          | 137<br>138 | _        |   | _        | -        | <u> </u> |          |          |          |                 |  |
|          | 139        | _        | _ | -        |          |          |          |          | L        |                 |  |
|          | 140        | -        | - |          |          |          |          |          |          |                 |  |
|          | 141        |          |   |          |          |          |          |          | _        | $\Box$          |  |
|          | 142        |          |   |          | Г        | Г        |          |          |          | П               |  |
|          | 143        |          |   |          |          |          |          |          |          |                 |  |
|          | 144        |          |   |          |          |          |          |          |          |                 |  |
|          | 145        |          |   |          |          |          |          | $\Box$   |          |                 |  |
|          | 146        |          | _ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _        | _        | Ш               |  |
| <u> </u> | 147        | _        | _ |          | _        | ļ        | <u> </u> | <u> </u> | _        | Щ               |  |
| ļ        | 148        | <u> </u> | _ | _        |          |          | <u> </u> | L        | <u> </u> | $\vdash \vdash$ |  |
|          | 149<br>150 | -        |   | $\vdash$ | $\vdash$ | <u> </u> | $\vdash$ | <u> </u> |          | $\vdash \dashv$ |  |
|          | 130        |          |   | Щ        | Ь        | L        | <u> </u> | L        | L        | لـــا           |  |